

CLAIMS:

1. Display device comprising a plurality of light emitting elements (1) at least one of said elements having an associated capacitor (C1), said device comprising pre-charging means (7;8) for generating a pre-charge signal for at least partially charging said associated capacitor, said pre-charge signal comprising at least a first pre-charge signal in a first pre-charge stage and a second pre-charge signal in a second pre-charge stage.
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2. Display device according to claim 1, wherein said pre-charging means (7;8) comprise a current source (8) for generating a pre-charge current as the first pre-charge signal during said first pre-charge stage, and a voltage source (7) for generating a subsequent pre-charge voltage as the second pre-charge signal during said second pre-charge stage.
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3. Display device according to claim 2, wherein a current limiting means is provided, which is adapted to limit said pre-charge current in operation.
- 15 4. Display device according to claim 3, wherein said current limiting means is said current source (8).
5. Display device according to claim 3, wherein said current limiting means comprises at least one resistor arranged so as to limit said pre-charge current.
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6. Display device according to claim 2, wherein said voltage source (7) is adapted to select, in operation, at least one of said light emitting elements (1) and said current source (8) is connected to said voltage source so as to limit the pre-charge current.
- 25 7. Display device according to claim 1, wherein said pre-charging means comprises a voltage source (7) in order to generate a pre-charge voltage as the first pre-charge signal during said first pre-charge stage and a subsequent pre-charge voltage as the second pre-charge signal during said second pre-charge stage.

8. Display device according to claim 7, wherein the display device comprises means (S7, S8) for selecting a resistance (R1, R2) to generate said pre-charge voltage and said subsequent pre-charge voltage.

5 9. Display device according to claim 2 or 7, wherein a sensing unit (10) is provided to obtain an operating voltage of at least one light emitting element and said voltage source (7) is adapted to generate said subsequent pre-charge voltage in accordance with said operating voltage.

10 10. Display device according to claim 9, wherein said operating voltage is obtained by said sensing unit (10) in a steady state of said light emitting element (1).

11. Pre-charging arrangement for pre-charging at least one capacitor (C1) associated with at least one light emitting element (1) of a display device, said pre-charging
15 arrangement being adapted for generating a pre-charge signal comprising at least a first pre-charge signal in a first pre-charge stage and a second pre-charge signal in a second pre-charge stage.